CLAIMS

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What is claimed is:

A document generation system comprising:
 an assembly facility configured to be coupled to an origination platform;

a knowledge base configured to be coupled to the assembly facility and to store objects in an object-relational hierarchy; and

a content management system configured to be coupled to the knowledge base and to support authoring of content and rules.

- 2. A document generation system as claimed in claim 1, wherein the assembly facility is configured to validate data received from the origination platform.
- 3. A document generation system as claimed in claim 1, wherein the assembly facility is configured to apply a precedence process.
- 4. A document generation system as claimed in claim 1, wherein the assembly facility is configured to apply rules to supplied transaction data to select, modify, or generate content.
- 5. A document generation system as claimed in claim 1, wherein the assembly facility is configured to validate data received from the origination platform, to apply a precedence process, and to apply rules to supplied transaction data to select, modify, or generate content.
- 6. A document generation system as claimed in claim 5, wherein the assembly facility is configured to generate a resolved, markup language file.
 - 7. A document generation system as claimed in claim 6, wherein the resolved, markup language file is an XML file to which a style sheet may be applied to generate a file in an output format.
- 8. A document generation system as claimed in claim 1, wherein the assembly facility is configured to operate with an interface to receive information from the origination platform.
 - 9. A document generation system as claimed in claim 8, wherein the interface is an application programming interface.
- 30 10. A document generation system as claimed in claim 1, wherein the knowledge base is configured to be loaded by press process.

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- 11. A document generation system as claimed in claim 1, wherein the knowledge base includes a plurality of stored procedures.
- 12. A document generation system as claimed in claim 1, wherein the knowledge base is configured to be loaded by press process and includes a plurality of stored procedures.
- 5 13. A document generation system as claimed in claim 1, wherein the knowledge base includes a plurality of object stores.
 - 14. A document generation system as claimed in claim 13, wherein each object store corresponds to an architecture specified by a schema or a document type definition.
 - 15. A document generation system as claimed in claim 13, wherein the knowledge base includes a rules object store and a content object store.
 - 16. A document generation system as claimed in claim 1, wherein each object store is configured to be able to contain a link to an object.
 - 17. A document generation system as claimed in claim 16, wherein each object store is configured to be able to contain a link to an object selected from the group of an external object, a binary object, or a character object.
 - 18. A document generation system as claimed in claim 17, wherein each binary and character object is composed of XML text fragments.
 - 19. A computer readable medium containing instructions for generating a document by acquiring data from an origination platform;
- 20 interacting with a knowledge base and applying precedence and rules to create a first set of documents;

modifying the first set of documents based on user input; validating data acquired from the origination platform; and

interacting with a knowledge base and applying precedence and rules to create a second set of documents.

- 20. A computer readable medium as claimed in claim 19, further comprising instructions for transforming each of the documents in the second set of documents into an XML file.
- 21. A computer readable medium as claimed in claim 20, further comprising instructions for applying style sheets to the XML file.

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- 22. A computer readable medium as claimed in claim 21, further comprising instructions for converting the XML file to a second file having a format other than an XML format.
- 23. A computer readable medium as claimed in claim 19, further comprising instructions for generating a document from the first set of documents that is a layout document.
 - 24. A computer readable medium as claimed in claim 19, further comprising instructions for validating data received from the origination platform.
 - 25. A computer readable medium as claimed in claim 19, further comprising instructions for performing a press process.
 - 26. A computer readable medium as claimed in claim 19, further comprising instructions for a plurality of stored procedures.
 - 27. A method of assembling computer-processable components into computer-processable end products, the method comprising:
- interacting with a knowledge base to create a first set of end products, each end product containing an object;

applying precedence to the first set of end products;
extracting rules from the knowledge base; and
assembling a second set of end products based upon applying precedence and rules.

- 28. A method as claimed in claim 27, further comprising acquiring data from an origination platform.
 - 29. A method as claimed in claim 27, further comprising validating data acquired from the origination platform.
 - 30. A method as claimed in claim 27, further comprising modifying one or more end products in the first set of end products based on user input.
 - 31. A method as claimed in claim 27, further comprising assigning a name to each object.
 - 32. A method as claimed in claim 31, wherein applying precedence to the first set of end products includes associating each object with a parent having a name.
- 33. A method as claimed in claim 32, wherein applying precedence to the first set of end products includes assigning at least one object to a precedence level while retaining an association to the name of the object's parent.

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- 34. A computer readable medium containing instructions for generating a document by interacting with a knowledge base to create a first set of documents; applying precedence to the first set of documents; extracting rules from the knowledge base; and assembling a second set of documents based upon applying precedence and rules.
- 35. A set of computer-processable end products assembled by a method, the method comprising:

interacting with a knowledge base to create a first set of computerprocessable end products;

applying precedence to the first set of computer-processable end products; applying rules to the first set of computer-processable end products; and assembling the set of computer-processable end products based upon applying precedence and rules.

- 36. The set of computer-processable end products as claimed in claim 35, further comprising acquiring data from an origination platform.
- 37. The set of computer-processable end products as claimed in claim 35, further comprising validating the acquired data from the origination platform.
- 38. The set of computer-processable end products as claimed in claim 35, further comprising modifying the first set of end products based on user input.
- 39. A set of documents generated by a method, the method comprising:
 interacting with a knowledge base to create a first set of documents;
 applying precedence to the first set of documents;
 applying rules to the first set of documents; and
 assembling the set of document based upon applying precedence and rules.
- 25 40. The document as claimed in claim 39 wherein the method further comprises acquiring data from an origination platform.
 - 41. The document as claimed in claim 39 wherein the method further comprises validating the acquired data from the origination platform.
 - 42. The document as claimed in claim 39 wherein the method further comprises modifying the first set of documents based on user input.
 - 43. A method for generating documents, the method comprising:

acquiring data from an origination platform;

Docket No. 014586-9009

rules.

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interacting with a knowledge base to create a first set of documents; applying precedence to the first set of documents based on the acquired data;

applying rules to the first set of documents based on the acquired data; and assembling a second set of documents based upon applying precedence and

- 44. The method as claimed in claim 43, further comprising validating the acquired data from the origination platform.
- The method as claimed in claim 43, further comprising modifying the first set of documents based on user input.